## What is claimed is:

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1. A radio communication system for performing multicast communication comprising:

a reception ability value collector configured to collect a reception ability value of a mobile station belonging to a specific multicast group;

a transmission method determiner configured to determine a transmission method of transmitting information in accordance with the collected reception ability value;

a transmitter configured to transmit the information to the mobile station using the determined transmission method; and

a radio resource manager configured to manage available radio resources:

and wherein the transmission method determiner determines the transmission method in accordance with the reception ability value and the available radio resources, so that a mobile station equipped with a predetermined reception ability can receive the information using the determined transmission method.

## A radio station comprising:

a reception ability value collector configured to collect a reception ability value of a mobile station belonging to a specific multicast group;

a transmission method determiner configured to determine a transmission method of transmitting information in accordance with the collected reception ability value; and

a transmitter configured to transmit the information to

the mobile station using the determined transmission method;

and wherein the transmission method determiner determines the transmission method so that a mobile station equipped with the best reception ability can receive the information using the determined transmission method.

## 3. A radio station comprising:

a reception ability value collector configured to collect a reception ability value of a mobile station belonging to a specific multicast group;

a transmission method determiner configured to determine a transmission method of transmitting information in accordance with the collected reception ability value; and

a transmitter configured to transmit the information to the mobile station using the determined transmission method;

and wherein the transmission method determiner determines the transmission method so that a mobile station equipped with the worst reception ability can receive the information using the determined transmission method.

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## A radio station comprising:

a reception ability value collector configured to collect a reception ability value of a mobile station belonging to a specific multicast group;

a transmission method determiner configured to determine a transmission method of transmitting information in accordance with the collected reception ability value;

a transmitter configured to transmit the information to the mobile station using the determined transmission method;

and

a radio resource manager configured to manage available radio resources;

and wherein the transmission method determiner determines the transmission method in accordance with the reception ability value and the available radio resources, so that a mobile station equipped with a predetermined reception ability can receive the information using the determined transmission method.

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- 5. The radio station according to any one of claims 2 to 4, wherein the reception ability value is defined by at least one of a demodulation method, a reception buffer size, a computing processing ability, an error correction method and an interleaving length.
- 6. The radio station according to any one of claims 2 to 4, wherein the transmission method is determined by at least one of a modulation method, transmission power, a method of organizing the information hierarchically, the amount of data, the numbers of codes, an error correction method, the numbers of blocks, an interleaving length and a rate matching method.
- 7. The radio station according to any one of claims 2 to 4,
  25 wherein the radio resource is defined by at least one of
  transmission power, the numbers of codes, the numbers of
  frequencies and propagation conditions.